

Last edited:  
10/11/18

# Switchyard Startup Checklist

## Shutdown Work

All shutdown work completed

## Vacuum

All P1 and P2 ion pumps turned on, pressures at operational levels, beam valves exercised and left open

I55, Beam Line, <P150>

I55, Beam Line, <P2-F1>

All turbos/roughers turned on, pressures at operational values, beam valves exercised and left open

I55, Beam Line <P2-F2>

I55, Beam Line, <P2-F3>

I55, Beam Line, <P2-F4>

I55, Switchyard, <G9>

I55, Switchyard, <SSB>

## LCW Systems

P1 LCW system running (local @ F0)

Remnant: three of F1-F4 plus A1 running

F1 (S4 LCW <2>)

F2 (S4 LCW <3>)

F3 (S4 LCW <4>)

F4 (S4 LCW <4>)

A1 (S4 LCW <5>)

Resistivities > 5 MOhm (S4 LCW <7>)

All magnets verified valved-in to LCW

All magnet power supplies verified valved-in to LCW

## Instrumentation

BLM high voltage supplies on

P1 (S4 INST <1>), 2000 V

P2 (S4 INST <2>), 2000 V

P3 (S4 INST <3-5>), 2000 V

Transfer Hall, local @ TG-9, 1000V

Enclosures B and C, local @ SSB

Enclosures F1 and G2, local @ G2

Profile monitors (S45)

MWIRE3 front-end up and running

MWF2P3 front-end up and running

SWIC front-end up and running

Sequences enabled

High voltages on

Verify timing event configuration, background seen upon trigger

Monitors moved in and out of beam path to verify motion

BPMs

SYBPMP front-end up and running

SBPMF1 front-end up and running

SBPMF3 front-end up and running

SBPMF4 front-end up and running

SBPMT9 front-end up and running

SBPMSB front-end up and running

## Magnet power supplies

Ask MCR Crew Chief to put a SY event in the timeline to test power supply ramps

P1 (S4 PWR\_SUP <1>)

P2-P3 (P4 PWR\_SUP <2>)

Transfer Hall, Enclosure B, C, F1, F2, F3 (P4 PWR\_SUP <3>)

## Alarms

Validate all Switchyard alarm lists and active/bypassed statuses

Signature/Date: \_\_\_\_\_